



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 25]

नई दिल्ली, शनिवार, जून 20, 1992 (ज्येष्ठ 30, 1914)

No. 25]

NEW DELHI, SATURDAY, JUNE 20, 1992 (JYAISTA 30, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में हखा जा सके।  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE

#### PATENTS AND DESIGNS

Calcutta, the 20th June 1992

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

Patent Office Branch,  
Todi Estates, III Floor,  
Lower Parel (West), Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees :**—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय  
एकस्व तथा अभिकल्प  
कलकत्ता, दिनांक 20 जून 1992

**पेटेंट कार्यालय के कार्यालयों के पते एवं कोशीधकार**

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा अम्बई, दिल्ली एवं मद्रास में इसके शास्त्र कागजिंग है, जिनके प्रादेशिक क्षेत्राधिकार जौन के आधार पर निम्न रूप में प्रदर्शित हैः—

पेटेंट कार्यालय शास्त्र, टोडी हस्टेट,  
तीसरा तल, लोअर परल (पश्चिम),  
दम्बह-400013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोआ, इमन तथा  
दिव एवं दावरा और नगर हवेली।

तार पता—“पेटेंटिस”

पेटेंट कार्यालय शास्त्र,  
एक सं. 401 से 405, सीमरा सल,  
नगरपालिका बाजार भवन,  
भरखसी मार्ग, करोल बाग,  
दम्बह दिल्ली-110005।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, गोरखाल तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिल्स”

पेटेंट कार्यालय शास्त्र,  
61, वालाखाह रोड,  
मद्रास-600002।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डुचेरी, लक्षद्वीप  
मिनिकाय तथा अमीनिदिवि द्वीप

तार पता—“पेटेंटोफिल्स”—

**पेटेंट कार्यालय (प्रधान कार्यालय)**  
निजाम पैलेस, विवरीय बहुतसीय कार्यालय,  
भवन, 5, 6 सथा 7वाँ तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020।

भारत का उब शेष क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अप्रैलिक्षित सभी आवेदन पत्र, सूचनाएँ, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे।

**शुल्क** :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपर्युक्त कार्यालय में नियंत्रक को भुगतान योग्य धनावेश अथवा जाक आवेदन या जहाँ उपर्युक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा की जा सकती है।

**CORRIGENDUM**

In the Gazette of India Part III, Section 2, dated 8th February, 1992, Page—169. Column—1, under heading “CESSATION OF PATENTS”.

Delete Patent No. 154768.

In the Gazette of India Part III, Section 2, dated 22nd February, 1992 Page 218. Column 2, under heading “CESSATION OF PATENTS”.

Delete Patent No. 154933.

Read No. 154954 for No. 154952.

**CORRIGENDUM**

In the Gazette of India Part III, Section 2, dated 28th December, 1991 in Column 2, page 1427 read the application No. 710/Cal/89 filed August 31st 1989 for accepted complete specification No. 169840 just above divisional out of No. 123/Cal/87 autedated to 13th February, 1987.

2. In the Gazette of India Part III, Section 2 dated 18th January 1992 in Column 1 Page 73 read the application No. 636/Mas/87 filed September 2, 1987 for Accepted Complete specification No. 169976 just below Inventor HURTMUT HILLI.

**THE PATENT OFFICE**

GOVERNMENT OF INDIA

Calcutta, the 20th June 1992

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under section 135, of the Patents Act, 1970.

The 6th May 1992

309/Cal/92 ICI INDIA LIMITED, “A PROCESS FOR THE PREPARATION OF NOVEL MODIFIED VANADYL HYDROGEN PHOSPHATES”.

310/Cal/92 JGC CORPORATION, “METHOD OF PRODUCING ETHYLENE FROM ETHANOL AND APPARATUS.” (DIVIDED OUT OF NO. 93/Cal/89 ANTE DATED TO 30-1-89).

The 7th May 1992

311/Cal/92 C.A. GREINER & SOHNE GESellschaft, m.b.H., “VEHICLE SEAT CUSHION IN PARTICULAR AIRCRAFT SEAT”.

312/Cal/92 BRITISH-AMERICAN TOBACCO COMPANY LIMITED, “DRYING PROCESS FOR INCREASING THE FILLING POWER OF TOBACCO MATERIAL AND APPARATUS FOR CARRYING OUT SAID PROCESS”.

The 8th May 1992

332/Cal/92 Jainendra Kumar Singh. An efficient window Operator.

313/Cal/92 Medicis Corporation. Improved ointment base and method of use. [Divisional application No. 498/Cal/91 antedated to 1st July, 1991].

18th May 1992

333/Cal/92 ELI Technologies, Inc. Method and systems of preparing extended length flexible harnesses.

314/Cal/92 Prasanta Kumar Mahapatra. Converter system, 6 volt Direct current power from different energy sources.

334/Cal/92 Hoesch Aktiengesellschaft. Grafting system.

315/Cal/92 Prasanta Kumar Mahapatra Water Warmer.

335/Cal/92 Ishikawajima-Harima Heavy Industries Company Limited. Strip Casting. Convention dated 23-5-91, No. PK 6298 Australia &amp; Convention dated 21-11-91, No. PK 9597, Australia.

The 11th May 1992

317/Cal/92 E.I. DU PONT DE NEMOURS AND COMPANY. Method for purifying  $TiO_2$  Ore.

## ALTERATION OF DATE UNDER SECTION 16

170939

(322/Cal/86) Antedated to April 24, 1986.

170956

(723/Cal/87) Antedated to September 09, 1987.

170958

(787/Cal/87) Antedated to October 09, 1987.

170959

(17/Cal/87) Antedated to January 06, 1987.

170942 Filed on 5th May 1987.

(386/DEL/87) Post-dated to 5th June 1987.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month, applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The Classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra) Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charge per page are Rs. 4/-.

The 12th May 1992

321/Cal/92 Thomson Consumer Electronics S. A. Apparatus and method for modulo computation.

322/Cal/92 American Home Products Corporation. Process of making a nutritionally complete food product. [Divided out of No. 833/Cal/90, antedated to 28-9-90].

The 12th May 1992

323/Cal/92 American Home Products Corporation. Fat Composition for infant formulas. [Divided out of No. 833/Cal/90, antedated to 28-9-90].

324/Cal/92 American Home products Corporation. Process of making a nutritionally complete food product. [Divided out of No. 833/Cal/90, antedated to 28-9-90].

The 13th May 1992

325/Cal/92 Norton Healthcare Limited. Medicament Dispensing device.

326/Cal/92 Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H., A Measuring Vehicle.

The 14th May 1992

327/Cal/92 Carlo Engineering Group Plc. Fibre opening device. (Convention dated 27th February, 1992, No. 92 04158.1, U.K.).

328/Cal/92 Engelhard Corporation. A Process for Conversion of organic compound using crystalline titanium silicate sieve zeolite. [Divided out of No. 1041/Cal/88 antedated to 19-12-88].

The 15th May 1992

329/Cal/92 Korea Institute of Science and Technology. Improved process for preparing coated Microbial pesticides and pesticides produced therefrom.

330/Cal/92 Coastal Mud, Incorporated. A method of preparing oil wells. [Divided out of No. 61/Cal/89 antedated to 19th January 1989].

331/Cal/92 Usines Et Acieries De Sanibre Et Meuse, Railway Bogie with Frame Having selective Defor-mability.

## स्वीकृत सम्पूर्ण विनिदेश

एतत्वारा यह सूचना वी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक को हृष्ट व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अधिक एसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विस्तृत प्रपत्र 14 पर आवंदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को एसे विवराध की सूचना दिवित प्रपत्र 15 पर दे सकते हैं। विवराध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विस्तृत इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिदेश के संबंध में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप हैं।”

नीचे सूचीगत विनिदेशों की सीमित संख्यक मूल्यित प्रतियां, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय होते यथा समय उपलब्ध होंगी। प्रत्येक विनिदेश का मूल्य 2/- रु. है।

(अतिरिक्त आक लक्ष्य) । मूल्यित विनिदेश की आपूर्ति होते मात्र पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिदेशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिदेशों की टकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विस्तृत लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अवायगी पर की जा सकती है। विनिदेश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिदेश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 193

170931

Int. Cl. : F 16 J, 15/02

## A FLAT LAMINATED SEALING RING FOR USE IN A WATER LEVEL GAUGE PORT.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : (1) JAMES HENRY HIPPLE (2) DON WILLIAM SMITH.

Application No. 785/Cal/88 filed on 19 September, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

9 Claims

A flat laminated sealing ring for use in a water level gauge port of known type comprising a metallic washer having a first and second side with an opening therethrough;

and a coating of graphite material on both sides of said washer, said graphite material being coextensive with said washer.

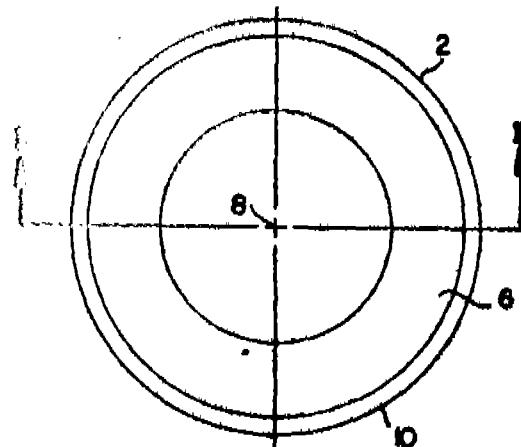


Fig. 1

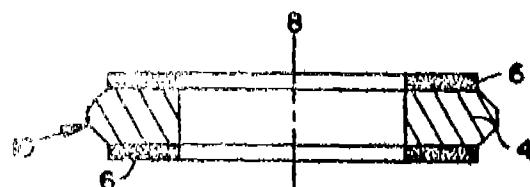


Fig. 2

Compl. Specn. 11 pages.

Drgs. 1 sheet.

Ind. Cl. : 15/ A - 4

170932

Int. Cl. : E 01 B 7/14

## REVERSING DEVICE FOR MOBILE PARTS OF A RAILWAY SWITCH.

Applicant : VOEST-ALPINE MASCHINENBAU GESELLSCHAFT M.B.H., OF A-4020 LINZ, LUNZERSTRASSE 64, AUSTRIA.

Inventors : (1) GERALD DURCHSCHLAG, (2) ALFRED LANG.

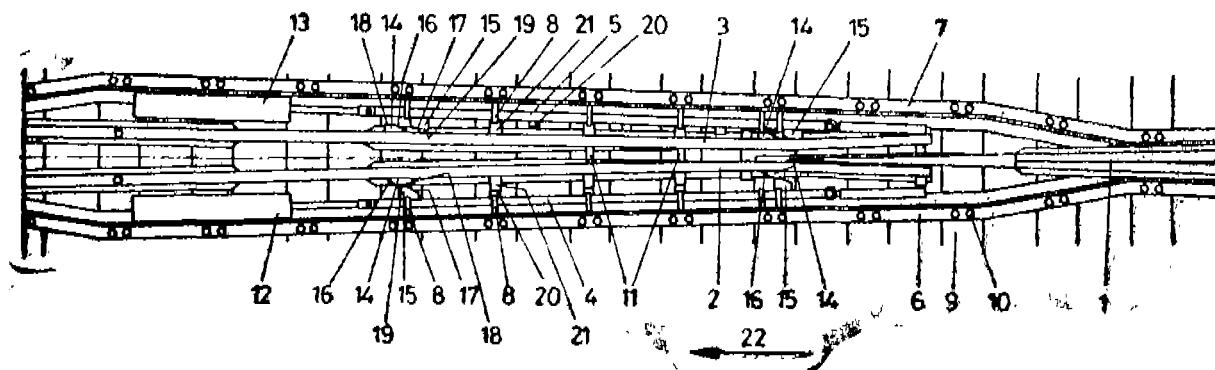
Application No. 870/Cal/88 filed on 21st October, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

18 Claims

Reversing device for the movable parts of a railway switch, in which movable wing rails (2, 3, 75) are, in their end positions, alternately engaging the frog (1, 76) and are supported in their engaging position by supporting rods (4, 5, 80) extending in longitudinal direction of the wing rails (2, 3, 75) and provided with guide means such as herein described to be slidably guided on the sleepers or, respectively, base plates (9, 32) in longitudinal direction of the wing rails, characterized in that the supporting rods (4, 5, 80) comprise at least one thrust support (15, 79, 90) cooperating with thrust supports (14, 77, 85) of the wing rails (2, 3, 75) for the purpose of shifting the wing rails relative to the frog (1, 76) such that said at least one of the mutually cooperating surfaces of said thrust supports (14, 15, 77, 79, 85, 90) is formed of a wedge surface (16, 17, 81, 91, 93) passing over into a supporting surface (18, 19, 82, 92, 94) of said thrust supports extending in essentially parallel relation to the longitudinal direction of the supporting rod (4, 5, 80).

and cooperating in the position of the wing rail (2, 3, 75) contacting the frog (1, 76) with the thrust support (14, 77, 85) of the wing rail.



Compl. Specn. 29 pages.

Drgs. 10 sheets.

Cl. : 68-D

170933

Int. Cl. : H 05 K 7/02, 7/18

## PROTECTIVE DEVICE FOR A WIRING FIELD OF A BACKPLANE OF A SUBASSEMBLY CARRIER.

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors: (1) EUGEN ASSEL, (2) BURKHARD DAS-BACH, (3) BRUNO GEBHARD.

Application No. 898/Cal/88 filed on 28th October 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

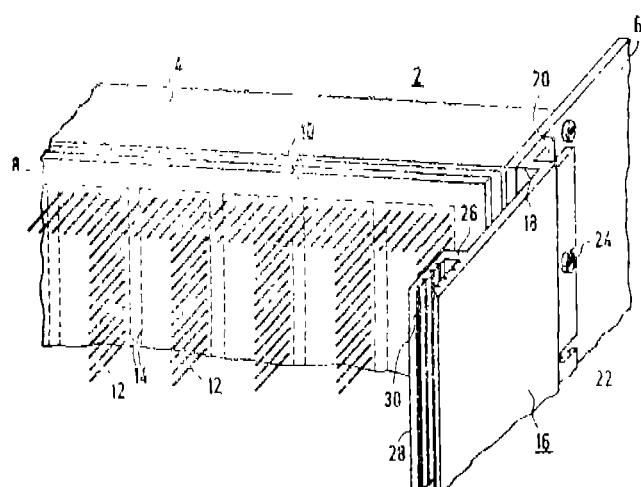
## 3 Claims

A protective device for a subassembly carrier (2) with backplane (8) having a wiring field of parallel wiring pins extending away from the panel, and a lateral side (6) comprising :

a U-shaped lateral section (16) having a first leg attached to said lateral side (6) and a second leg with a longitudinal receptacle (28), said receptacle (28) having a longitudinal channel (30);

A shield plate (32) cooperating with said lateral section to enclose said wiring field; and

fastening means (34) for detachably fastening said shield plate to said longitudinal receptacle (28).



Compl. Specn. 8 pages.

Drgs. 2 sheets.

Cl. : 32 A 1

170934

Int. Cl. : C 09 B 29/00.

## PROCESS FOR THE PREPARATION AN AZO COMPOUND.

Applicant: HOECHST AKTIENGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

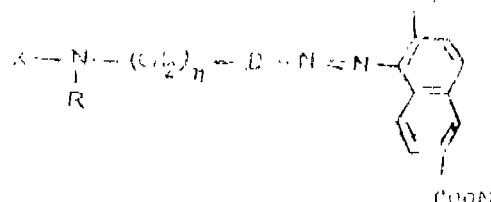
Inventors: (1) HARTMUT SPRINGER, (2) KURT HUS-SONG.

Application No. 925/Cal/88 filed on 4th November 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 9 Claims

A process for the preparation of an azo compound corresponding to the formula (1) of the accompanying drawings in which the symbols have the following meanings :



D is a para- or meta-phenylene group, both of which can be substituted by 1 carboxy group or 1 or 2 sulfo groups, or is a naphthylene group containing the azo group bound in the 1- or 2- position and to which the X-N(R)-(CH)<sub>n</sub>-grouping is bound in the 5- or 6-position and which can be substituted by 1 or 2 carboxy groups or 1 or 2 sulfo groups;

R is a hydrogen atom or an alkyl group of 1 to 4 carbon atoms, such as the methyl or ethyl group, or is an alkyl group of 1 to 4 carbon atoms substituted by a cyano, carboxy, sulfo, sulfato or phosphato group, preferably a hydrogen atom and the methyl group;

n is the number zero, 1 to 2, preferably zero;

X as fiber-reactive radical is a diazine, triazine, pyrimidine or pyridazine, radical containing at least the reactive substituent and which can be substituted additionally by other sub-

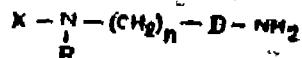
stituents, selected from the group consisting of the following substituents:

ammonium hydrazinium and sulfonium groups, each of which is substituted by alkyl and/or substituted or unsubstituted — aryl — radicals, — and alkylsulfonyl, — arylsulfonyl, — azido, thiocyanato, — thio alkylthio, — arythio, — alkoxy, aryloxy, sulfino or sulfo groups, the alkyls of and in those substituents having 1 to 4 carbon atoms and the substituted or unsubstituted aryl radicals being preferably phenyl and naphthyl radicals which can be substituted by 1, 2 or 3 substituents, preferably from the group consisting of alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms, sulfo, carboxy and halogen, or

X is an aliphatic reactive radical;

M is a hydrogen atom or an alkali metal or the equivalent of a divalent or trivalent metal, preferably a hydrogen atom or an alkali metal.

which comprises diazotizing an aromatic amino compound of the formula (5) at a temperature of between  $-5^{\circ}\text{C}$  and  $+200^{\circ}\text{C}$  and at a pH of 2 or less than 2 in which X, R, n and D have the abovementioned meanings (where, if D is naphthylene, the amino group-NH is bound in the 1- or 2- position of the naphthylene) and coupling the product with 2-naphthol-6-carboxylic acid or a salt of this carboxylic acid at a temperature of between  $5^{\circ}\text{C}$  and  $25^{\circ}\text{C}$  and a pH between 4 and 8.



Comply. Specn. 20 pages.

Drgs. 7 sheets.

Cl. 143 D 4

170935

Int. Cl. B 30 B 9/00

**"AN APPARATUS FOR COMPACTING REFUSE  
OR THE LIKE"**

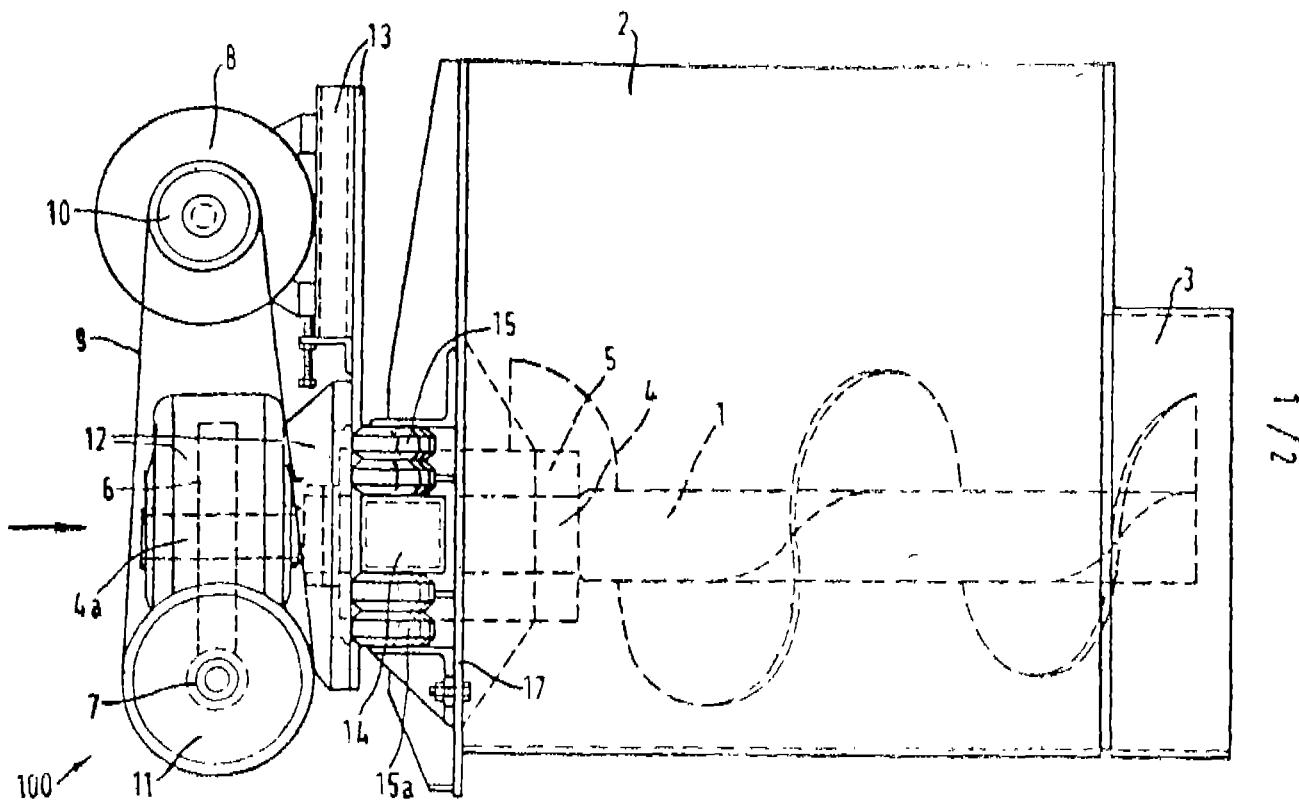
Applicant & Inventor: (1) MANUS COFFEY OF GLENDARRAGH HILL, NEWTOWNMOUNTK-ENNEDY, COUNTY WICKLOW, IRELAND AND (2) NORMAN SLACK OF KILTISSIPPER ROAD, TALLAGHT, DUBLIN 24, IRELAND.

Application No. 976/Cal/88 filed on 28th November,  
1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 14 Claims

A refuse compaction apparatus which comprises a trough for receiving refuse or the like; a screw or auger means mounted in the trough for transferring the refuse from the trough to a container attachable to the trough; the mechanism or an extension thereof having a plate member rotatably mounted thereon a drive means for the mechanism mounted on the plate member, the plate member having a torque arm attached thereto; at least one biasing means mounted on a base for permitting limited rotation of the arm relative to the mechanism; and a switch means operatively associated with the arm so that upon said rotation of the arm beyond a predetermined limit, the switch means is actuated so as to inactivate the drive means.



Compl. Specn. 17 pages.

Drgs. 2 sheets.

Cl. : 127 B

170936

Int. Cl. : F 16C, 3/00.

ASSEMBLED SHAFT, ESPECIALLY CAMSHAFT, CRANKSHAFT OR DRIVESHAFT.

Applicant : EMITEC GESELLSCHAFT FUR EMISSIONSTECHNOLOGIE MBH. OF HAUPTSTRASSE 150, D-5204 LOHMAR 1, WEST GERMANY.

Inventor : HELMUT SWARS.

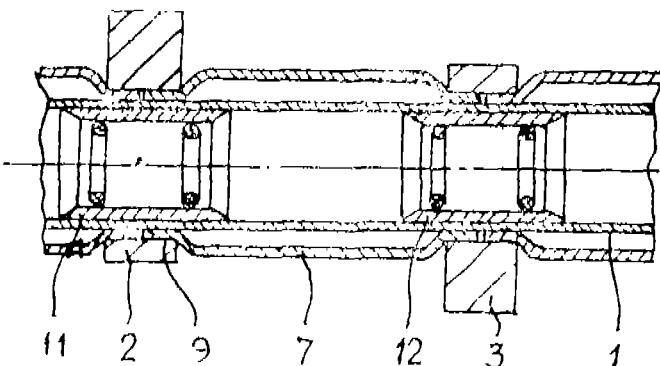
Application No. 17/Cal/89 filed on 6th January, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

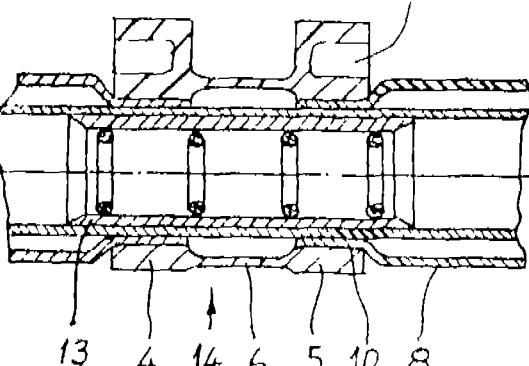
12 Claims

An assembled shaft in particular camshaft, crankshaft or gearshaft, made of a tubular body and drive elements pushed on individually on the tubular body, comprising :

a socket with a greater diameter compared to the tubular body between two drive elements and the inserted butt-joint areas reduced in diameter are pushed-up on the tubular body, whereby the butt-joint areas reach under the drive elements and are fixed between the tubular body and drive elements.



Compl. Specn. 14 pages.



Drgs. 1 sheet.

Ind. Cl. : 88 DF

170937

Int. Cl. : F 25 J 3/00

## AN APPARATUS FOR SEPARATING SOLID PARTICLES FROM A GAS STREAM.

Applicants : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000, FRANKFURT AM MAIN, WEST GERMANY.

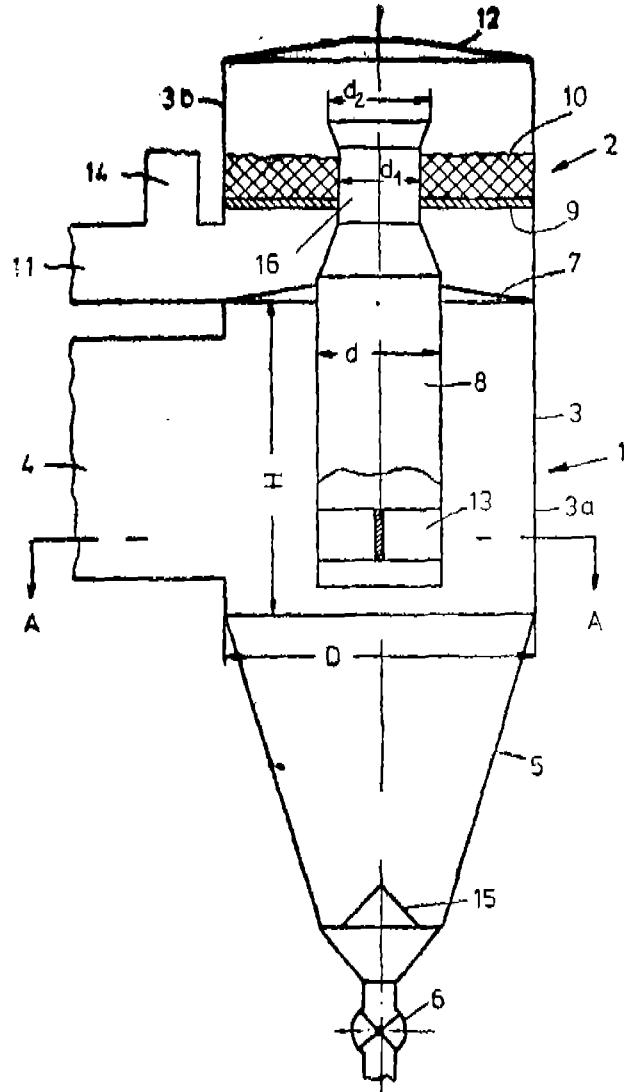
Inventors : (1) WILHELM LEUSSLER, (2) ROBERT WURL (3) HERBERT SCHLAFFER.

Applicaton No. 174/Cal/89 filed on 1st March, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

8 Claims

An apparatus for separating solid particles from a gas stream, consisting of centrifugal separator (1) and a granular bed filter (2), which are arranged one over the other in a common cylindrical housing (3) to constitute a unit of construction, wherein the centrifugal separator (1) is arranged at the bottom and comprises a housing part (3a) having a height H and provided with a tangential gas inlet pipe (4), a dust-collecting bin (5), which adjoins the housing part (3a) at its bottom and is provided with an outlet (6), and a centrally disposed gas outlet pipe (8), which extends through the top wall (7), and the granular bed filter (2) is flown through from top to bottom and comprises a granular bed space (10), which is disposed over a grate (9) and has the shape of a circular ring surrounding the gas outlet pipe (8), a gas outlet pipe (11) arranged in the housing part (3b) between the grate (9) and the top wall (7), and a cover (12), characterized in that the gas inlet pipe (4) is rectangular in cross-section and has a height amounting to 60 to 80% and a width amounting to 20 to 30% of the height H of the housing part (3a) and gas guiding means (13) are provided in the gas outlet pipe (8) and extend parallel to the axis of said pipe.



Compl. Specn. 14 pages.

Drgs. 4 sheets.

Cl. : 195 D

170939

Int. Cl. : F 16 K 1/00.

## RING VALVE.

Applicant : HOERBIGER VENTILWERKE AKTIEN-GESELLSCHAFT, OF BRAUNHUBERGASSE 49, A-1110 VIENNA, AUSTRIA.

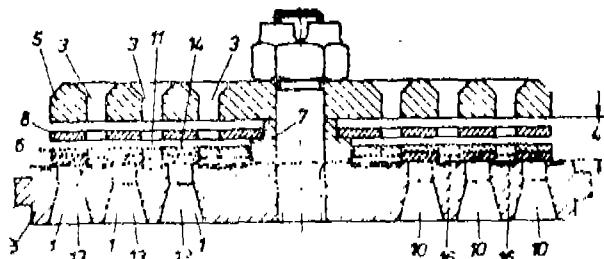
Inventor : HANS HIRBAL.

Application No. 424/Cal/89 filed on 1st June, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

## 17 Claims

A ring valve, particularly for compressors, comprising a valve seat with passage channels disposed in ring formation for the controlled medium, a valve guard comprising outlet passages and arranged above the valve seat to leave an interspace therebetween, and a valve plate disposed in this interspace and urged against the valve seat by spring elements supported on the valve guard, characterised in that the valve plate (6) consists of individual annular plates (10) disposed over the passage channels (1) of the valve seat, plus a support plate (11) which lies jointly on all the annular plates (10) on that side thereof facing away from the valve seat (2) and transfers the force of the spring elements (18) which act on it.



Compl. Specn. 19 pages.

Drgs. 5 sheets.

Ind. Cl. : 32 F<sub>2</sub>

170939

Int. Cl. : C07C 133/00, 85/00, 87/00

## A PROCESS FOR PRODUCING DIMETHYLAMINE.

Applicant : E. I. DU PONT DE NEMOURS & COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors : (1) HORACIO ENRIQUE BERGNA, (2) DAVID RICHARD CORBIN (3) GEORGE CARL SON-NICHSEN.

Application No. 527/Cal/89 filed on 6th July, 1989.

(Divisional of application No. 322/Cal/86. Ante dated to 24-4-86.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

## 6 Claims

A process for producing dimethylamine, comprising reacting methanol and/or dimethylether and ammonia, in amounts sufficient to provide a carbon/nitrogen (C/N) ratio from 0.2 to 1.5 and at a temperature from 2500 to 4500°C, in the presence of a modified acidic catalytic zeolite characterized in that the said modified acidic catalytic zeolite is selected from the group consisting of chabazite, erionite, ZK-5, and rho, the zeolite having been modified by treatment with at least one compound as herein described containing the element aluminium, to deposit substantially on the external surfaces thereof at least 0.05 weight percent of the element and the reaction is conducted at a pressure in the range of 7 to 7000 kPa.

Compl. Specn. 41 pages.

Drgs. Nil.

Ind. Cl. : 128 F

170940

Int. Cl. : A 61/ M 5/00

## CLINICAL SYRINGE.

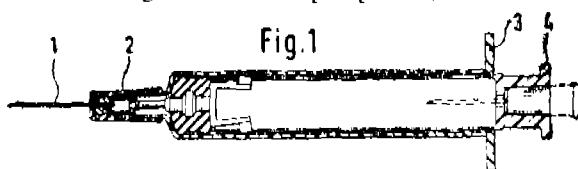
Applicant and Inventors : VINCENTE SEGUI PASTOR, CUENCA 85, E-46008 VALANCIA, CPAJN, AMANDO GALIANA SABATER, QUEVEDO 5, E-46001 VALENCIA, SPAJN AND ENRIQUE SEGUI PASTOR, CUENCA 55, E-46008, VALENCIA, SPAIN.

Application No. 619/Cal/1989 filed on 1st August, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

## 22 Claims

A clinical syringe comprising essentially three sections : the needle, the plunger and the piston, wherein the cylinder or casing of the syringe is such that the needle may be drawn inside the syringe by pulling it in characterised in that the plunger consists of one part the piston with means whose front end has an extension which can lock into the inner casing of the needle and whose rear end is Ω shaped which slides along the sides of the plunger and the other part namely the cylinder or body or the syringe whose base has openings in which the lungs of the Ω shaped part lock into.



Compl. Specn. 11 pages.

Drgs. 4 sheets.

170941

Ind. Cl. : 206 E.

Int. Cl. : H01J 41/00

## A NEGATIVE ION GENERATOR.

Applicant & Inventors : UMA SHANKAR CHAURASIA & BHANU SHANKAR CHAURASIA OF D-54/19, AURANGABAD, VARANASI-221 001 (U.P.), INDIA.

Application for Patent No. 296/DEL/87 filed on 09 APR 1987.

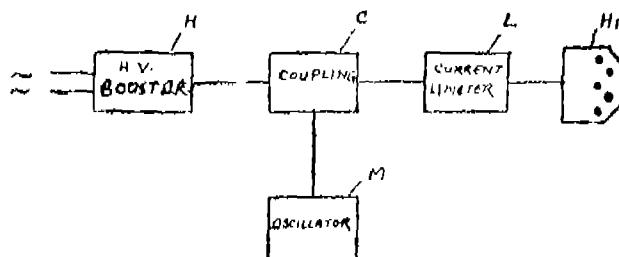
Complete Specification left on 5 Jul 1988.

Patent of addition to Patent Application No. 693/Del/84 filed on 3 Sept 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A negative ion generator comprising a housing (H), an emitter plate (H<sub>1</sub>) having a single or plurality of emitter needles for providing a stream of ions, said emitter plate connected to a high voltage source, a zero potential source is disposed in the proximity but in a spaced relationship to said emitter needles for providing a high emission of ions, characterized in that means for providing carrier waves (M) being connected between voltage booster and emitter plate through a coupling (C) such that said carrier waves being received by the emitter needles, said means for providing carrier waves being an ultrasound source or an oscillator.



(Provisional Specification 5 Pages).

Complete Specification 7 Pages

Drawing Sheet 1.

Ind. Cl. : 194 C<sub>1</sub> L x III(4)

170942

Int. Cl. : H 01 J 29/98.

## CATHODE-RAY TUBE SOCKET.

Applicant : GOLDSTAR CO. LTD., 537, NAMDAU-MUN-RO 5 GA CHUNG-GU, SEOUL, KOREAN.

Inventor : WON-TEE KIM.

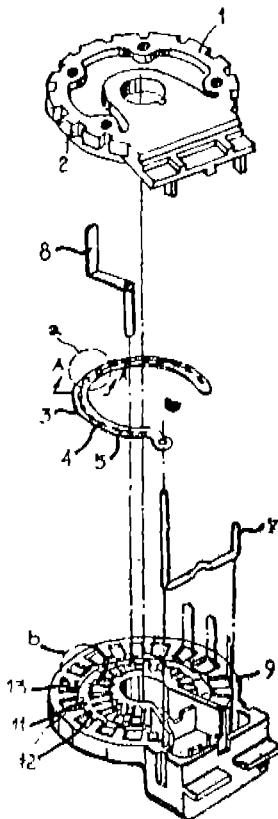
Application for Patent No. 386/Del 87 filed on 5 May 1987 Post Dated to 5 Jun 1987.

Convention date 7 May 1986/No. 8710774/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110 005.

## Claim 1

A cathode ray tube socket comprising a terminal board having radial grooves 13 for receiving connectors 8 and radially formed walls 10 defining the connector receiving grooves 13, connectors 8, a common earth terminal 3 and a cap cover 15 characterised in that a terminal board 9 is provided with a earth terminal receiving groove 11 being cut across the middle of the walls 10 in a depth deeper than that of the connector receiving grooves 13 and having at the bottom projection 12 so as to receive a common earth terminal 3 having in integrity bends 5 and opening 4, for receiving projections 12 through, and to receive connectors 8 in the grooves 13 and to be capped by a cover 1 to keep the contractors set under the pressure of the rising projections 14 and 15.



Complete specification 7 pages

Drawing sheets 2.

Ind. Cl. : 198D.

170943

Int. Cl. : D06F 1/00, 1/02 &amp; 37/00

## TANK FOR WASHING MACHINES MADE OF SYNTHETIC MATERIAL.

Applicant : CIAPEM, 137, RUE DE GERLAND, 69007 LYON, FRANCE, A FRENCH COMPANY.

2-117GI/92

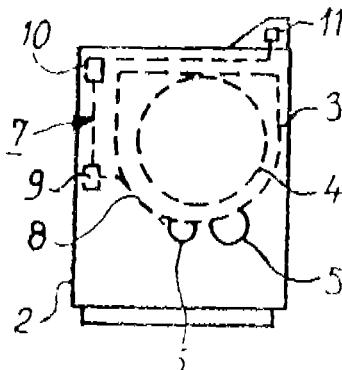
Inventor : HENRI GRABARZCZYK.

Application for Patent No. 401/Del/87 filed on 8 May 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110 005.

## 7 Claims

Tank for washing machines made of synthetic material having a cylindrical shape enclosing an internal substantially cylindrical space (12), being closed at one of its ends by an incorporated (13) wall and covered at the other end by a detachable (14) end lid, characterised in that outside the internal space (12) and in a zone (16) of its bottom, an incorporated compression (8) chamber which communicates with this bottom through a pressure tap opening (17) and has firstly an upper (18) part extending along the outside of the tank above the level of this bottom and secondly a lower (20) part opened downwards.



Complete Specification 12 pages

Drawing sheets 2.

Ind. Cl. 194 C<sub>1</sub>

170944

Int. Cl. : H01J 29/00 &amp; 31/00.

## APPARATUS FOR VARYING THE VIEWING ANGLE OF A CATHODE RAY TUBE DISPLAY.

Applicant : DIGITAL EQUIPMENT CORPORATION, A MASSACHUSETTS CORPORATION, OF 146 MAIN STREET, MAYNARD, MASSACHUSETTS 01754, UNITED STATES OF AMERICA.

Inventors : JOHN C. KILLIAN &amp; MICHAEL W. KLEEMAN.

Application for Patent No. 410/DEL/87 filed on 12 May 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110005.

## 6 Claims

Apparatus for varying the viewing angle of a cathode ray tube display (6) which comprises :

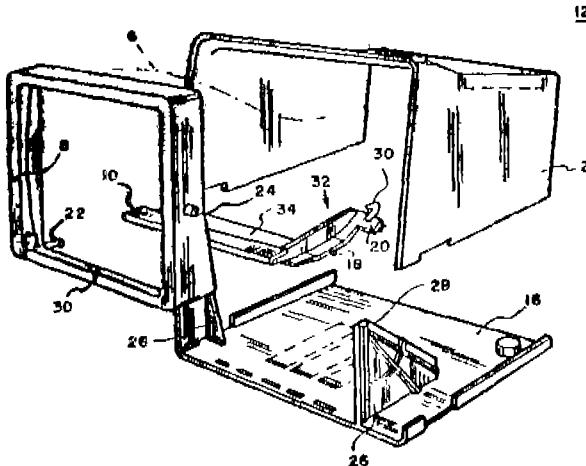
frame means (8) for receiving an retaining said display (6), said frame means (8) incorporating one or more pivot means (24) located proximate to and in engagement with said cathode ray tube display (6);

bottom panel means (16) for supporting said frame means (8) and said display (6), said panel means (16) including integral pivot support means (26) for supporting said pivot means (18) thereby enabling said frame (8) to rotate about a horizontal axis;

angle adjustment means comprising a spring-loaded lever (32) pivotally connected to said frame means (8) for varying the angle of said display (6), the opposite end of said lever (32) being provided with a toothed portion (20) biased by said spring (30) between brace member (38)

and an arcuate gear means (40) whereby said toothed portion (20) is selectively engageable with said arcuate gear means (40); and

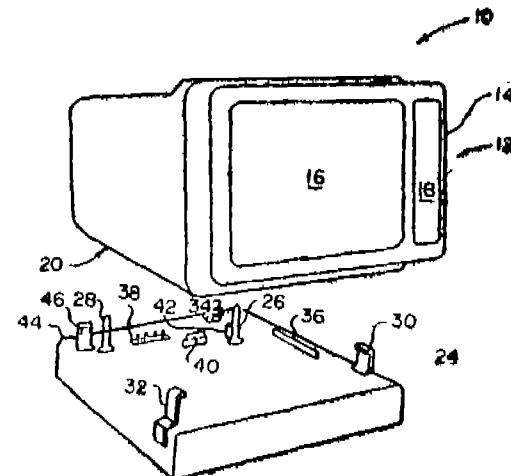
a control bar (10) connected to the near end of said lever (32) which, upon depression, causes said toothed portion (20) of said lever (32) to disengage from said arcuate gear means (40) thereby permitting rotation and said frame means (8) and upon release causes the toothed portion (20) to re-engage said arcuate gear means (40) thereby inhibiting rotation of said frame means (8).



Compl. Specn. 11 pages

Drgs. sheets 2

main unit thereon and defining a mounting pin associated with each of the locating recesses and so located thereon that, when the mounting pins are simultaneously in contact with the guide surfaces associated with the associated locating recesses, the guide surfaces guide the expansion unit into a position in which the expansion-unit connector is in operative engagement with the main unit connector, the expansion unit further having a plurality of latches which capture the catch surfaces of the main-unit housing when the main unit is lowered onto the expansion unit and thereby secure the expansion unit to the main unit.



Complete Specification 16 Pages

Drawing sheets 5.

Ind. Cl. : 206 E.

170945

170946

Int. Cl. : G06F 15/00.

#### A COMPUTER ASSEMBLY.

Applicant : DIGITAL EQUIPMENT CORPORATION, A MASSACHUSETTS CORPORATION OF 146 MAIN STREET, MAYNARD, MASSACHUSETTS 01754, UNITED STATES OF AMERICA.

Inventors : HEWON HWANG, JOHN CLAYTON KILJIAN, JEFFREY MICHAEL LEWIS & VICTOR MICHEL SAMAROV.

Application for Patent No. 411/DEL/87 filed on 12 May 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110005.

#### (Claims 8)

A computer assembly comprising:

A. a computer main unit (12) having a main housing (14) and a computer contained inside the housing, the main unit (12) having a cathode-ray-tube display (16) and a main unit connector (36) providing electrical connection to signal paths in the computer, the main housing (14) having a bottom wall (20) defining a plurality of locating recesses (48, 56) and associated guide surfaces (52, 60) convergent to the locating recesses (48, 56) the main-unit housing further defining a plurality of engageable catch surfaces; and

B. an expansion unit (24) comprising an expansion-unit housing and a peripheral device contained in the expansion-unit housing, the expansion unit having an expansion-unit connector electrically connected to the peripheral device and for operative engagement with the main-unit connector, the expansion unit housing having a lower surface for resting on a horizontal surface and having an upper surface for supporting the

Ind. Cl. : 206 E.

Int. Cl. : H03H 3/00.

#### APPARATUS FOR GENERATING ONE OF RADIO-FREQUENCY PULSES AND CONTINUOUS WAVES.

Applicant : MEGAPULSE INCORPORATED, A DELAWARE CORPORATION HAVING A PRINCIPAL PLACE OF BUSINESS AT 8 PRESTON COURT, BEDFORD, MA 01730, U.S.A.

Inventor : PETER VERPLANCK.

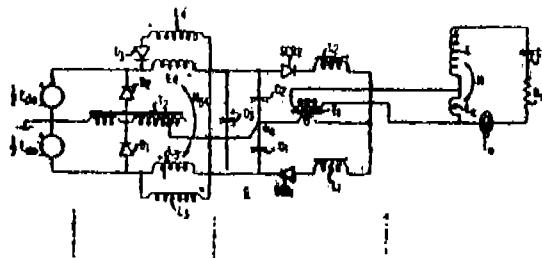
Application for Patent No. 417/DEL/87 filed on 14 May 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 2 Claims

Apparatus for generating one of radio-frequency pulses and continuous waves comprising means (GSCR) for generating sequential spaced half-cycle pulses of alternately opposite polarity, tank resonator circuit connected to said generator means to excite radio frequency oscillations in said circuit, said tank resonator circuit (L, LC, C, Rs) having means for tuning the frequency of said resonator circuit to cause the same to oscillate at a harmonic frequency of period  $1/N$ , of a period between successive similar polarity pulses, said generating means for adjusting the width and amplitude of the pulse to cause the energy thereof applied to the resonator circuit to substantially compensate for the amount of dissipation of harmonic oscillation excited in the said resonator circuit by the preceding pulse, a clamping means (L<sub>3</sub>, L<sub>1</sub>, L<sub>4</sub>, L<sub>2</sub>, D<sub>1</sub>, D<sub>2</sub>, T<sub>1</sub>) being connected to push-pull sequential SCR-controlled magnetic pulse generating circuit means, to prevent energy accumulation therein faster than the harmonic dissipa-

tion in the tank resonator circuit and means for inhibiting latch-up fault wherein the SCR's simultaneously conduct.



Complete Specification 19 pages

Drawing Sheets 4

Ind. Cl. : 32F 2(a)

Int. Cl. : C07C 87/54

#### PROCESS FOR THE PREPARATION OF 4-NITRODIPHENYLAMINES.

Applicant : BAYER AKTIENGESELLSCHAFT, A BODY CORPORATE ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, OF LEVERKUSEN, BAYERWERK, FEDERAL REPUBLIC OF GERMANY.

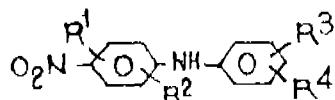
Inventor : CHIRARANJAN PODDER & HARRO SCHLESSEN.

Application for Patent No. 421/Del/87 filed on 14 May 1987.

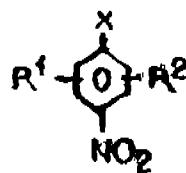
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 7 Claims

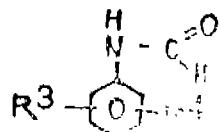
A process for the preparation of 4-nitrodiphenylamines of the formula I of the drawings



in which  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  are identical or different and represent hydrogen or an alkyl radical with 1 to 9 carbon atoms, said process comprises reacting halogenonitrobenzenes of the formula II of the drawings



in which  $\text{X}$  represents chlorine or bromine and  $\text{R}^1$  and  $\text{R}^2$  have the abovementioned meaning, with formyl derivatives of the formula III of the drawings



in which  $\text{R}^3$  and  $\text{R}^4$  have the abovementioned meaning, in the presence of potassium carbonate, characterised in that 1.5 to 4 mol of the compound III are employed per

mol of halogenonitrobenzene such that the molar excess of the compound III over the halogenonitrobenzene is always 50 to 300%, preferably 100 to 200%, and in that the reaction is preferably carried out up to a 90-95% conversion of the halogenonitrobenzene, and the water formed during the reaction is removed continuously from the reaction zone.

Compl. Specn. 9 pages

Drg. Sheet 1

Ind. Cl. : 107 J K 170948

Int. Cl. : F02N 17/08.

#### AUTODECOMPRESSION INLET/EXHAUST VALVE CONTROL MECHANISM FOR AN INTERNAL COMBUSTION ENGINE.

Applicant : HONDA GIKEN KOGYO KABUSHIKI KAISHA, OF 1-1, MINAMIAOYAMA 2-CHOME, MINATO-KU, TOKYO, JAPAN, A COMPANY ORGANISED UNDER THE LAWS OF JAPAN.

Inventor : TAKANORI ONDA.

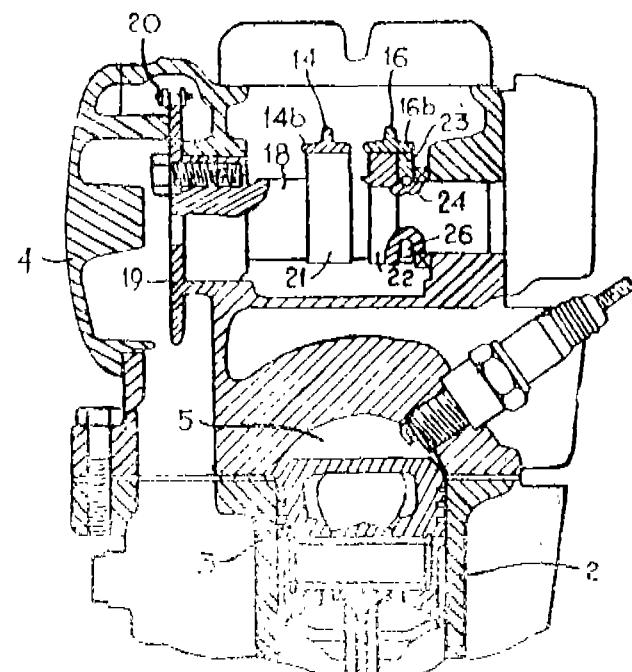
Application for Patent No. 426/Del/87 filed on 14 May 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110 005.

#### 9 Claims

An autodecompression, inlet/exhaust valve control mechanism for an internal combustion engine having a combustion chamber (5), inlet (8) and exhaust (9) valves controlling communication with said combustion chamber (5), said mechanism comprising;

a camshaft (18) rotatably mounted in the engine above said combustion chamber (5) and having at least one cam (21, 22) on said camshaft for controlling the inlet (8) or exhaust (9) valves connected to the combustion chamber (5), and valve actuation means extending from the cam (22) to the inlet (8) and/or exhaust (9) valve and having a cam follower (16b) at the surface of the cam (22);



a decompression cam (23) on the camshaft (18) adjacent the cam (22), said decompression cam (23) having an outer peripheral surface facing the cam follower (16b), said outer peripheral surface being slightly smaller in radial extent than the surface of said cam (22) for con-

sion cam (23) having an inner bore (23c) extending around trolling the inlet (8) or exhaust (9) valves connected to the combustion chamber (5), and valve actuation means extending from the cam (22) to the inlet (8) and/or exhaust (9) valve and having a cam follower (16b) at the surface of the cam (22);

a decompression cam (23) on the camshaft (18) adjacent to the cam (22), said decompression cam (23) having an outer peripheral surface facing the cam follower (16b), said outer peripheral surface being slightly smaller in radial extent than the surface of said cam (22) for controlling the inlet (8) or exhaust (9) valve, said decompressing the cam shaft (18) so as to have some play between the bore (23c) and said cam shaft (18), the decompression cam (23) having a weight portion (23b) projecting radially from the rotational axis of the cam (22), said weight (23b) being within said outer peripheral surface of said decompression cam (23);

interlocking means (25, 24, 27) for preventing relative rotation between said camshaft (18) and said decompression cam (23) while allowing limited radial movement between said decompression cam (23) and the camshaft (18); and

retaining means (26, 28) for adjustably fixing said decompression cam (23) displaced from the camshaft (18) at a first location on the camshaft (18).

Compl. Specn. 18 pages

Draw. Sheet 7

Ind. Cl. : 24 E.

170949

Int. Cl. 4: B69T 7/00 & 11/00.

## BRAKING SYSTEM FOR TWO-WHEELERS.

Applicant: PIAGGIO & C. S.p.A., A COMPANY ORGANISED UNDER THE LAW OF THE ITALIAN REPUBLIC OF VIA A. CECCHI, 6, GENOVA, ITALY.

Inventor: MACO NUTI.

Application for Patent No. 453/Del/87 filed on 26 May 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110 005.

### 3 Claims

Braking system for two-wheelers which comprises:

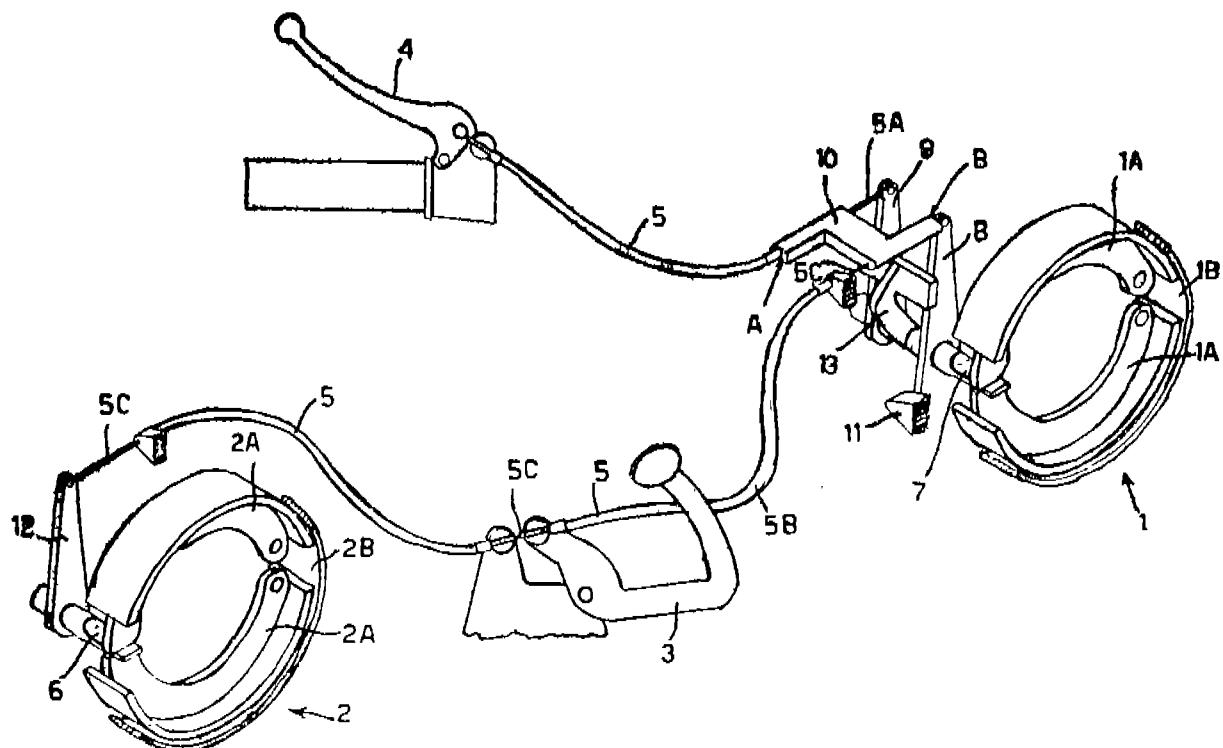
a front wheel braking assembly (1),

a rear wheel braking assembly (2),

a foot pedal operated normal-duty actuation member (3) connected with both of said braking assemblies,

a hand lever operated emergency actuation member (4) connected with one of said two braking assemblies,

a pair of transmission members (5) connected to said braking assemblies for transmitting the actuation forces from said actuation members to brake shoes of the said braking assemblies, said transmission members being linked to said braking assemblies by respective levers (8, 9) characterised in that said braking system comprises a means for balancing the actuation forces applied by said normal-duty actuation member and said emergency actuation member on one of said front or rear wheel braking assemblies, said balancing means comprising a balancing element (10) slidably mounted along said transmission members (5), one end of said balancing element being acted upon by the first lever (B) connected to the transmission member connected with said normal-duty actuation member and the other end being acted upon by the second lever (9) connected to the transmission member connected with said emergency actuation member, said levers being displaced by the application of force by the said actuation members, which levers in turn actuate a cam (7) in the said one of said brake assemblies through a further lever (13), said further lever (13) being acted upon only by the levers (8, 9) having a greater force exerted thereon through said transmission members.



Compl. Specn. 17 pages

Drgs. 5 Sheets

Ind. Cl. : 50 E<sub>2</sub>

170950

Cl. 114 A D

170951

Int. Cl. : F25D 23/00.

## REFRIGERATOR.

Applicant : WHIRLPOOL CORPORATION, 2000 M-63, BENTON HARBOR, MICHIGAN 49022, UNITED STATES OF AMERICA, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE IN UNITED STATES OF AMERICA.

Inventors : WILLIAM JOHN LINSTROMBERG & DONALD EDWARD JANKE.

Application for Patent No. 460/Del/87 filed on 01 Jun 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 22 Claims

A refrigerator (10) having a cabinet (12) defining a first compartment (14) and a second compartment (16) separated from each other by a divider wall (18), air passage for communicating between said compartments, cooling means for cooling said first compartment and control means responsive to the temperature of one of said compartments for producing a control signal indicative of the need to cool said compartment, a baffle and switch assembly comprising :

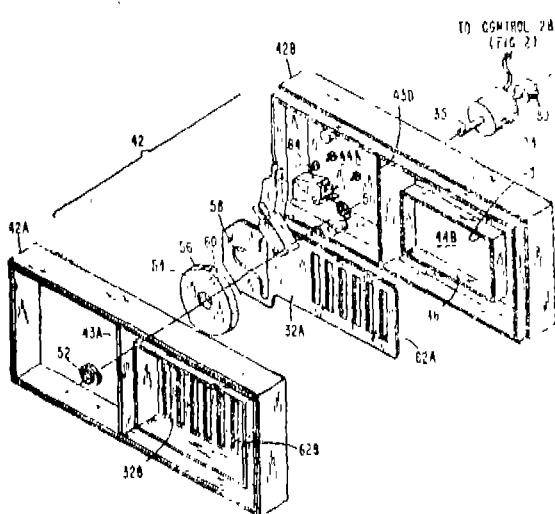
baffle means (32) positioned within said air passage means and indexable to selectively open and close said air passage means;

said baffle means comprising a moveable baffle plate and a movable can having a control surface;

motor means (34) connected to said control means responsive to said control signal for indexing said baffle means; and coupling means for coupling said baffle to said motor means;

switch means (66A) in said switch assembly, operative in response to the position of said control surface, for operating said cooling means;

said switch means (66A) being positioned with respect to said control surface such that indexing operation of said motor means in response to said control signal operates said switch means synchronously with said baffle to selectively cool said compartment.



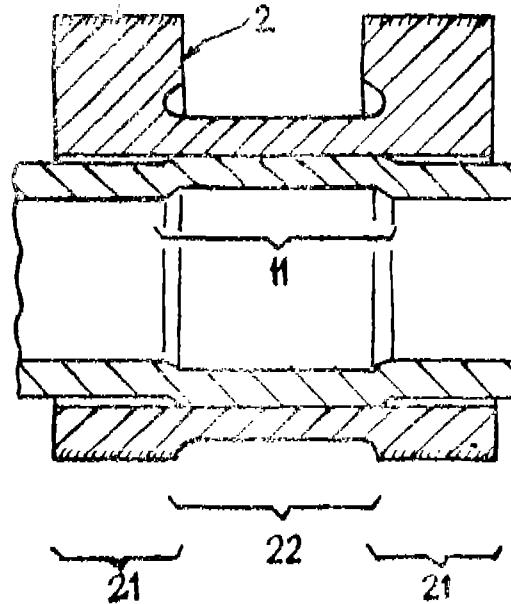
(b) a cocatalyst which is a trialkyl boron compound, dialkyl aluminium alkoxide compound, trialkyl aluminium compound, or a mixture thereof, said cocatalyst being present in an amount in the range of 0.5 to 10 weight percent based on the weight of the supported chromium component;

(c) wherein said (a) and (b) are premixed in an inert ambient prior to contacting said ethylene; and

(d) introducing sufficient hydrogen during said polymerization of ethylene to produce a copolymer product of ethylene and one or more in-situ generated olefin comonomers, wherein said copolymer product has a density in the range of 0.915 g/cc to 0.965 g/cc, said polymerization being carried out in a reactor at a temperature in the range of 85° to 110° C.

Compl. Specn. 20 pages.

Drg. Nil.



Compl. Specn. 10 pages.

Cl : 32 A1

170954

Int : Cl. C 09 B 29/00, 29/039, 29/16.

**"PROCESS FOR PREPARING OF A MONOAZO COMPOUND"**

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) HORST TAPPE, (2) DIETER OEHME, (3) WERNER HUBERT RUSS.

Application No. 886/Cal/88 filed on October 26, 1988.

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972) Patent Office Calcutta.

**10 Claims**

A process for preparing a monoazo compound conforming to the formula (1) of the accompanying drawing where the symbols have the following meanings :

D is a benzene or naphthalene ring or a heterocyclic radical, R, R<sup>1</sup> and R<sup>2</sup> are each, independently of the other, hydrogen, alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms, halogen, carboxy or sulfo,

XZ is a fibre-reactive group of the formula X SO<sub>2</sub> in which X is a vinyl group or is an ethyl group

Cl : 127 B, I.  
Int : Cl. F 16 B, 1/00.

170953

**"A DRIVE SHAFT ASSEMBLY"**

Applicant : EMITEC GESELLSCHAFT FUR EMISSIONSTECHNOLOGIE, OF HAUPTSTRASSE 150, D-5204 LOHMAR 1, WEST GERMANY.

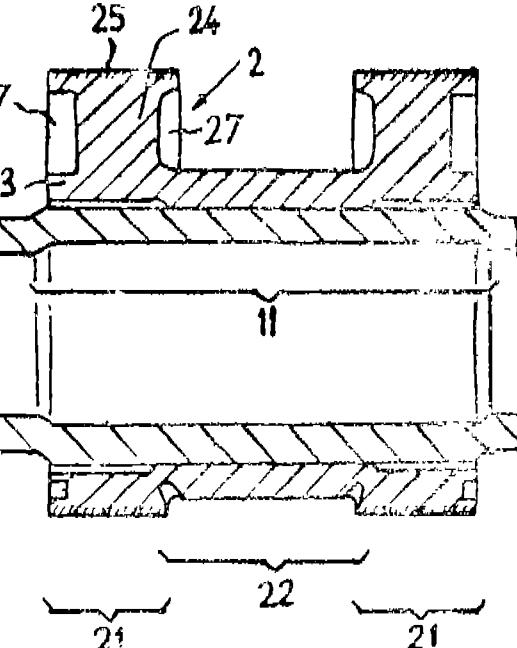
Inventor : HELMUT SWARS.

Application No. 743/Cal/88 filed on September 05, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

**7 Claims**

A drive shaft assembly comprising a drive shaft having a plurality of driving elements characterised in that two or more said driving elements being arranged in groups and individual elements of the group being connected to each other by elastically expanded, thin-walled sleeves.



Drg. 1 Sheet.

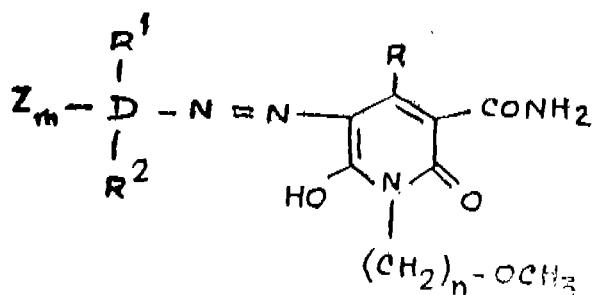
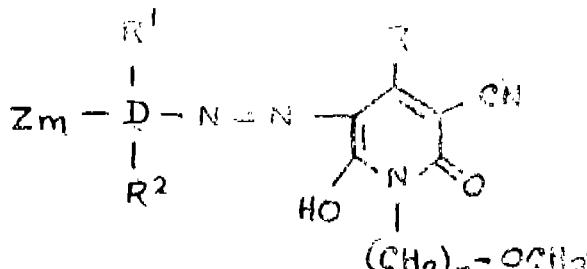
which is substituted in the β- position by substituent which is eliminated under alkaline conditions to form the vinyl group, for example a-chloroethyl,

β-acetoxyethyl, β-thiosulfatoethyl, phosphatoethyl and in particular a β-sulfatoethyl group, which fibre-reactive group X-So-2 is bonded to D either directly or via a bridge member, such as a substituted or unsubstituted benzene or naphthalene ring or a substituted or unsubstituted phenylamino or benzoylamino group or an alkylene group of 1 to 4 carbon atoms, and Z is preferably a group of the general formula (2) in which X is defined as above and A is a direct bond or a methylene or ethylene group or an amino group of the general formula (2) in which R\* is a hydrogen atom or an alkyl group of 1 to 4 carbon atoms, such as an ethyl group and in particular a methyl group.

m stands for the number 1 or 2, preferably 1,

R is hydrogen or alkyl of 1 to 4 carbon atoms which may be substituted, for example by halogen, such as bromine and in particular chlorine hydroxy, cyano, sulfo, carboxy, sulfate for phosphato, or is phenyl which may be substituted for example by 1 or 2 substituents from the group consisting of methyl, ethyl, methoxy, ethoxy, chlorine, sulfo and carboxy, or is carboxy carbamoyl or carbalkoxy of 2 to 5 carbon atoms, but preferably alkyl of 1 to 4 carbon atoms.

n stands for the number 2 or 3, preferably 3, which process comprises reacting an azo compound of the general formula (1A) in which D, R<sup>1</sup>, R<sup>2</sup>, m and n are defined as above and z has one of the meanings mentioned above or is the  $\beta$ -hydroxyethylsulfonyl group, with a 90 to 98% strength aqueous sulfuric acid at a temperature between 70° and 90°C.



Formula (2)



Formula (2A)

Compl. specn. 24 pages.

Drg. 1 sheet

Cl. 32A.1

170955.

Int. Cl. C 09 B 29/00.

**“PROCESS FOR PREPARING MONOAZO COMPOUND”**

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventor : HARMUT SPRINGER, (2) KURT HUSSONG.

Application No. 953/Cal/88 filed on 16 November 1988

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972) Patent Office Calcutta.

**8 Claims**

A process for preparing a monoazo compound conforming to the general formula (1) of the accompanying drawings where the variables have the following meanings :

D : is a para-or meta-phenylene group which can be substituted by 1 carboxy group or 1 or 2 sulfo

groups, or is a naphthylene group which contains the azo group bonded on the 1-or 2-position and to which the grouping X-N(R)-is bonded in the 5- or 6-position and which can be substituted by 1 carboxy group or 1 or 2 sulfo groups.

R : is a hydrogen atom or an alkyl group of 1 to 4 carbon atoms, or is a hydroxy-, cyano-, carboxy-, sulfo-, sulfato- or phosphato- or phenyl- or sulfo-phenyl-substituted alkyl group of 1 to 4 carbon atoms.

M : is a hydrogen atom or an alkali metal or the equivalent of a divalent metal.

X : is a group of the general formula (2) where

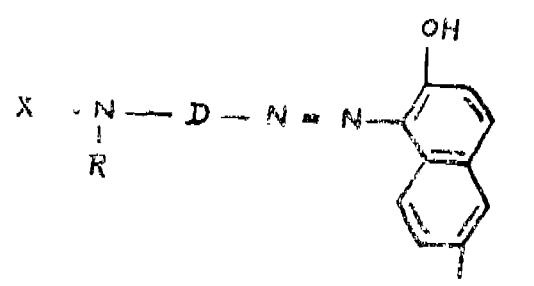
Y : is halogen

R<sup>1</sup> : is a hydrogen atom or an alkyl group of 1 to 4

carbon atoms, or is an alkyl group of 1 to 4 carbon atoms which is substituted by a sulfo, carboxy, phosphato, sulfato, hydroxy or cyano group and/or by a phenyl or naphthyl radical which may be substituted by sulfo, carboxy, alkyl of 1 to 4 carbon atoms, alkoxy or 1 to 4 carbon atoms, chlorine and/or nitro, or denotes a phenyl radical which can be substituted by 1, 2 or 3 substituents selected from the group consisting of the following substituents; 2 alkyls of 1 to 4 carbon atoms, 2 alkoxyes of 1 to 4 carbon atoms, 1 bromine, 2 chlorines, 3 sulfos, 2 carboxyls, 1 nitro, 1 alkylsulfonyl of 1 to 4 carbon atoms which may be substituted by hydroxy, 1 alkylamino of 1 to 4 carbon atoms and 1 alkylamino of 1 to 4 carbon atoms which may be substituted in the alkyl radical by hydroxy, sulfato, sulfo, phosphato, alkanoyloxy of 2 to 5 carbon atoms or by carboxy-substituted alkanoylamido of 1 to 4 carbon atoms in the alkylene radical, or R denotes a monosulfo-, disulfo- or trisulfo-naphthyl radical, R<sup>1</sup> and R<sup>2</sup> being identical to or different from each other, or R<sup>1</sup> and R<sup>2</sup> together with the nitrogen atom form a heterocyclic radical composed of an alkylene radical of 3 to 8 carbon atoms or a further heteroatom and two alkylene radicals of 1 to 4 carbon atoms, which comprises

R<sup>2</sup> : is a hydrogen atom or an alkyl group of 1 to 4 carbon atoms, or is an alkyl group of 1 to 4 carbon atoms which is substituted by sulfo, carboxy, phosphato, sulfato, hydroxy or cyano, or by a phenyl or naphthyl radical which may be substituted by sulfo, carboxy, alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms, chlorine and/or nitro, or denotes a phenyl radical which can be substituted by 1, 2 or 3 substituents selected from the group consisting of the following substituents; 2 alkyls of 1 to 4 carbon atoms, 2 alkoxyes of 1 to 4 carbon atoms, 1 bromine, 2 chlorines, 3 sulfos, 2 carboxyls, 1 nitro, 1 alkylsulfonyl of 1 to 4 carbon atoms which may be substituted by hydroxy, 1 alkylamino of 1 to 4 carbon atoms and 1 alkylamino of 1 to 4 carbon atoms which may be substituted in the alkyl radical by hydroxy, sulfato, sulfo, phosphato, alkanoyloxy of 2 to 5 carbon atoms or by carboxy-substituted alkanoylamido of 1 to 4 carbon atoms in the alkylene radical, or R denotes a monosulfo-, disulfo- or trisulfo-naphthyl radical, R<sup>1</sup> and R<sup>2</sup> being identical to or different from each other, or R<sup>1</sup> and R<sup>2</sup> together with the nitrogen atom form a heterocyclic radical composed of an alkylene radical of 3 to 8 carbon atoms or a further heteroatom and two alkylene radicals of 1 to 4 carbon atoms, which comprises

diazotizing an aromatic amino compound of the general formula (3) where X, R and D are as defined above as a temperature of between -5°C and + 20°C and at a pH of 2 or less than 2, and coupling the diazonium compound with 2-naphthol-6-carboxylic acid or a salt of this carboxylic acid at a temperature of between 5° and 25°C and at a pH of between 4 and 8 get the desired product.



Formula (3)

Compl. Specn. 21 pages.

Drgs. 19 sheets.

Ind. Cl. 34 D

170956

Int. Cl. : D01 F 11/00

"PROCESS FOR PREPARING FLASE-TWIST-TEXTURED YARN".

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors : CECIL EVERETT REESE.

Application No. 9/Cal 90 filed on 1st January, 1990.

(Divisional of Application No. 723/Cal/87, Ante dated to 9-9-87).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

2 Claims

A process for preparing a false-twist-textured yarn comprising subjecting a multifilament polyester feed yarn to simultaneous draw-texturing at a speed of at least 500 mpm, the feed yarn consisting essentially of polymerized ethylene terephthalate residues and of oxysilicate residues acting as a chain brancher, and the resulting package of textured yarn has not more than about 0.5 BFC, and over 20 TYT.

Compl. Specn. 27 pages.

Drg. 1 sheet.

Ind. Cl. 32 F 2(b), 6 X 2 d

170957

Int. Cl. : C07D 233/54

PROCESS FOR PREPARING ETHERS OF 1-BENZYL-3-HYDROXY-METHYL-INDAZOLE WITH ALIPHATIC 2-HYDROXYACIDS.

Applicant : AZIENDE CHIMICHE RIUNITE ANGELINI FRANCESCO A.C.R.A.F. S.p.A., OF VIALE AMELIA, 70, 00181 ROMA, ITALY.

Inventors : (1) BRUNO SILVESTRINI, (2) LEANDRO BAIOCCHI

Application No 81/Cal/90 filed on 30 January, 1990.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

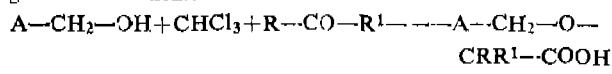
2 Claims

A process for the preparation of a compound of the formula I

A-CH<sub>2</sub>-O-CRR'-COOR'' (1)

where A is a 1-benzyl-indazol-3-yl nucleus of the formula shown R and R' may be the same or different and are H or <sub>1</sub>-C<sub>5</sub> alkyl, in figure 1 of the accompanying drawing, R'' is H; and the salts thereof with pharmaceutically acceptable basis, the process comprising :

(i) reacting, according to conventional techniques, a compound of formula II with a ketone and chloroform in the presence of an alkaline hydroxide according to the following reaction scheme.



(II)

(I)

wherein A has the already mentioned meaning, and R and R' may be the same or different and are a C-<sub>1</sub> C<sub>5</sub> alkyl, and

(ii) preparing, when desired, a salt of said acid of formula I with a pharmaceutically acceptable base.

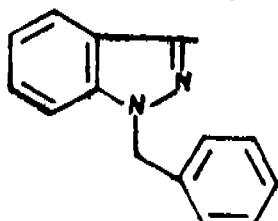


Figure 1

Compl. Specn. 16 pages

Drg. 1 sheet.

Ind. Cl. : 32E+55E4

170958

Int. Cl. : C08G 63/46, 63/60, 63 68

A PROCESS FOR THE PREPARATION OF A MIXED ESTER HAVING PARTIALLY CROSS-LINKED ESTERS AND NON-CROSS-LINKED ESTERS OF HYALURONIC ACID.

Applicant : FIDIA, S.p.A., OF VIA PONTE DELLA FABBRICA, 3/A, 35031 ABANO TERME, ITALY.

Inventors : (1) FRANCESCO DELLA VALLE  
(2) AURELIO ROMEO

Application No. 91/Cal/90 filed on 1st February, 1990.

(Divisional of Application No. 787/Cal/87 Ante dated to 9-10-87).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A process for the preparation of mixed esters having partially cross-linked esters and partially non-crosslinked simple esters of hyaluronic acid comprising reacting a potassium or sodium or quaternary ammonium salt of hyaluronic acid with esterifying agent in two stages, the first stage being carried out with an in situ esterifying agent as herein described to produce partially non-crosslinked simple esters of hyaluronic acid, thereafter further esterifying the said partially simple esterified hyaluronic acid in the second stage with another in situ esterifying agent as herein described to produce cross-linked ester groups in the substantial non-esterified carboxyl functions of the hyaluronic acid, the said two esterifications being carried out in an aprotic solvent, any remaining non-esterified carboxyl functions being, if desired, saponified in a known manner with a metal or organic base.

Compl. Specn. 99 Pages.

Drg. Nil.

Ind. Cl. : 32 A2

170958

Int. Cl. : C09 B 47/24

"PROCESS FOR THE PREPARATION OF WATER-SOLUBLE PHTHALOCYANINE DYESTUFFS".

Applicant : HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : HARTMUT SPRINGER.

Application No. 198/Cal/90 filed on 7th March, 1990.

(Divisional of Application No. 17/Cal/87 Ante dated to 6-1-87).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An improved process for preparing a water soluble phthalocyanine dyestuff of the formula (1) of the accompanying drawing.

in which

Pc is the radical of the metal-free or metalcontaining phthalocyanine, which may be further substituted in the 3 and/or 4-position of the carbocyclic aromatic ring, and in which sulfo, ridechoul onamide and/or sulfo in groups are bonded in the 3-and/or 4-positions of the carbocyclic aromatic rings,

R is a hydrogen atom or a lower aliphatic radical which may be substituted,

R<sup>1</sup> and R<sup>2</sup> each donate a hydrogen atom or a lower alkyl group which may be substituted, or an aryl radical which may be substituted, or

R<sup>1</sup> and R<sup>2</sup> together with the nitrogen atom and an alkylene radical having 3 to 8 carbon atoms or with a further hetero atom and two lower alkyl ene radicals, form the radical of a 4 to 8 membered heterocyclic ring.

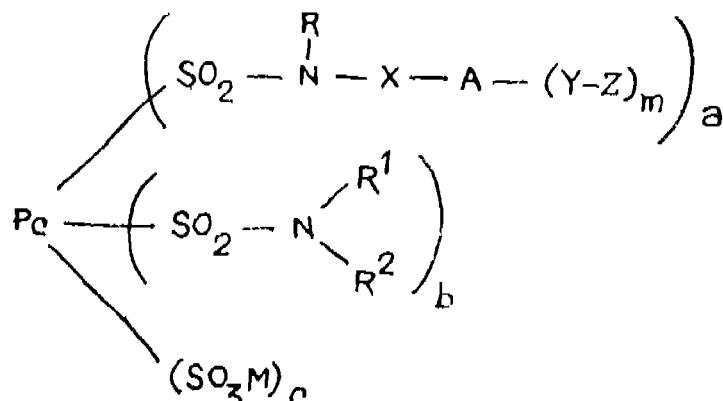
A is an aromatic carbocyclic or aromatic heterocyclic radical.

X is a direct bond or a divalent organic linking member or, together with the -N(R)-group, forms a radical of the formula (5) in which

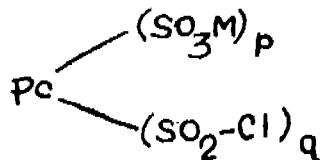
n n is an integer from 2 to 6 and alkylene represents a lower alkylene radical.

Y represents a direct bond or a group of the formula 10(a), 10(b), 10(c) or 10(d),

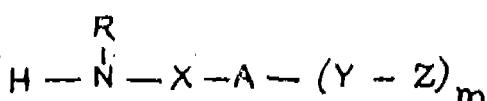
Z is the  $\beta$ -hydroxyethyl sulfonyl  $\beta$ -chloroethyl sulfonyl,  $\beta$ -acetoxyethylsulfonyl,  $\beta$ -thiosulfatoethylsulfonyl,  $\beta$ -phosphatoethylsulfonyl, vinylsulfonyl or  $\beta$ -sulfatoethylsulfonyl group,



Formula (1)



Formula (2)



Formula (3)

Compl. Specn. 22 pages.

Cl. : 32 F3 b + 55 E<sub>4</sub>

170960

Int. Cl. : C 07 C 51 /36, 59/54

"AN IMPROVED SINGLE STEP CATALYTIC TRANSFER HYDROGENATION PROCESS FOR THE PREPARATION OF P-HYDROXYPHENYL-ACETIC ACID FROM AN ALKALI METAL SALT OF M-CHLORO-P-HYDROXYMANDELIC ACID.

Applicant : ICI INDIA LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD CALCUTT-700071, WEST BENGAL, INDIA.

Inventors : (1) DR. HANAMANTHSA SHANKARSA BEVINAKATTI, (2) DR. CHAKRAVARTHULA SRI-NIVASA NARASIMHAN, (3) RAVINDRA VISHNU NEWADKAR.

Application No. 998/Cal/90 filed on 27 November 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

## 4 Claims

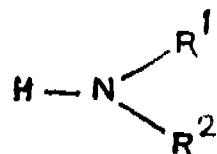
An improved single step catalytic transfer hydrogenation process for the preparation of p-hydroxyphenylacetic acid of the formula I of the accompanying drawings from an alkali metal salt of m-chloro-p-hydroxymandelic acid of the formula II of the accompanying drawings comprising hydrogenating an alkali metal salt of compound of the formula II such as herein described with formic acid as hydrogen

a is an integer from 1 to 4,

b is an integer from 1 to 3, and where a and b are identical to or different from one another, but the sum of (a+b) is a maximum of 4,

m is the number 1 or 2 M is a hydrogen atom or alkali metal which comprises reacting in a manner such as herein described a phthalocyaninesulfonyl chloride of the general formula (2) or a mixture, in which q is an integer from 1 to 4 and P<sub>c</sub> has the meaning mentioned above.

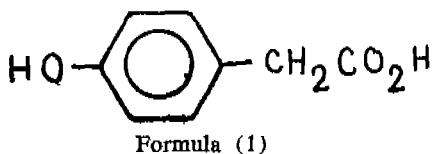
simultaneously or in any sequence with an amino compound of the general formula (3) in which A, R, X, Y, Z and m have the above-mentioned meanings, and a further amino compound of the general formula (4) in which R<sup>1</sup> and R<sup>2</sup> have the abovementioned meanings, at a temperature between zero and 60°C and at a pH between 3.5 and 8.5, the improvement consisting of carrying out the reaction in the presence of a pyridine compound selected from a pyridine sulfonamide or a pyridine carboxamide or a mixture of such compounds.



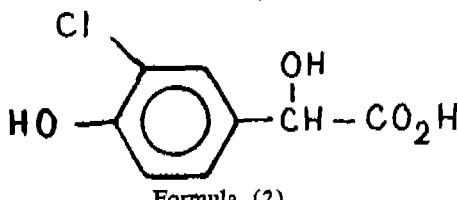
Formula (4)

Drgns. 2 sheets.

donor source in the presence of a palladium catalyst consisting of palladium metal supported on a carrier such as herein described and a solvent such as herein described at 70°-120°C and atmospheric pressure and isolating the compound of the formula I from the reaction mixture as herein described, the molar ratio of the alkali metal salt of compound of the formula II to formic acid being 1:3 to 1:20, the weight ratio of the alkali metal salt of compound of the formula II to the palladium metal being 100:1 to 1000:1, and the weight ratio of the palladium metal to the carrier being 1:200 to 1:10.



Formula (1)



Formula (2)

Compl. Specn. 9 Pages.

Drg. 1 Sheet.

Ind. Cl. : 131 B4

170961

Int. Cl. : E21C 1 00

A GANG DRILL FOR ROCK BORING AND THE LIKE.

Applicant : INGERSOLL-RAND COMPANY, A CORPORATION OF THE STATE OF NEW JERSEY, U.S.A., 200 CHESTNUT RIDGE ROAD, WOODCLIFF LAKE, NEW JERSEY, U.S.A.

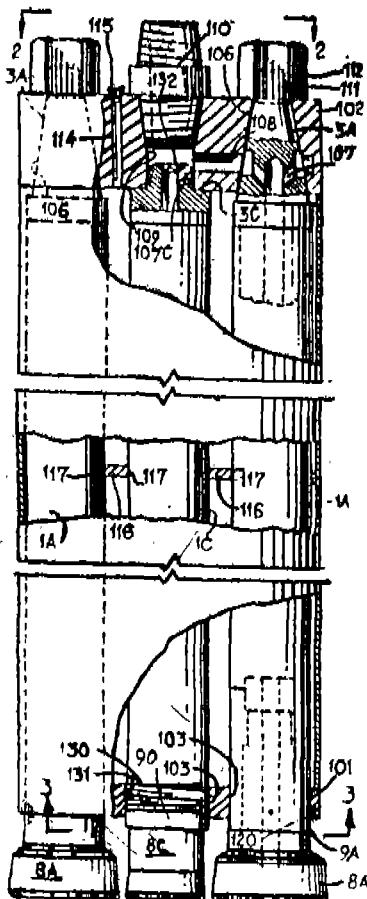
Inventor : EWALD HEINZ KURT.

Application for Patent No. 476/DEL/87 filed on 03 JUN 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

A gang drill for rock boring and the like, comprising a plurality of individual percussion producing rock drills (1) located proximate to each other, a cylindrical drill casing (100), totally enclosing said percussion producing rock drills, said casing having a top end connected to a drill string and a bottom and adjacent to the rock boring bits 8(A) and operatively associated with each of said individual rock drills, said percussion producing rock drills being provided with alignment means (101, 102), securing means (111, 112) and means for supplying pressure fluid for each of said drills, said pressure fluid entering said drills internally of said casing and existing said drills external to said casing at its bottom end, said casing forming a peripheral passage for the existing of rock cutting and provide protection for said drills, said peripheral passage being provided by drill bits for cutting a hole having a diameter greater than the diameter of said casing.



Ind. Cl. : 98 E

170963

Int. Cl. : H01J 25/00, H03C 3/32, 5/04.

MICROWAVE APPARATUS INCORPORATING TWO OR MORE MAGNETRONS EACH PROVIDED WITH MEANS FOR CONTROLLING THE MICROWAVE POWER THEREOF.

Applicant : ALFASTAR AB, OF BOX 500, 147 00 TUMBA SWEDEN, A SWEDISH COMPANY.

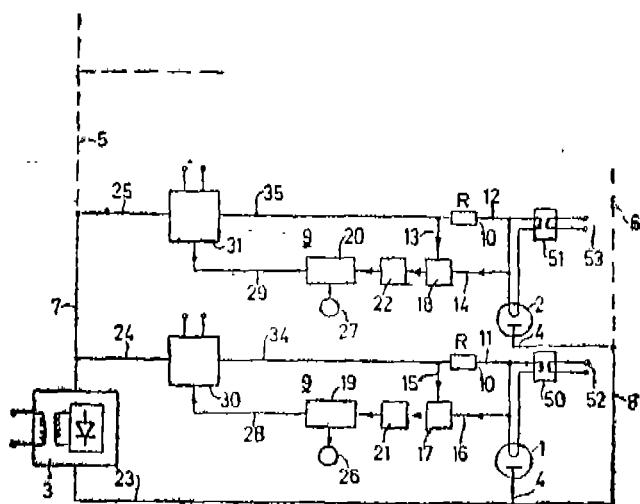
Inventors : BENNY BERGGREN & LARSGORAN GUSTAFSSON.

Application for Patent No. 537 DEL/87 filed on 24 JUN 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

13 Claims

Microwave apparatus incorporating two or more magnetrons (1, 2), each connected in parallel to and powered by a high voltage power source (3), each magnetron being provided with means for controlling its microwave power which comprises an individual control circuit comprising means connected to said magnetron for measuring the anode current passing through said magnetron on the high-voltage side thereof, said measuring means (17, 18) generating a signal representative of said anode current and conveying said signal to a respective control circuit means (19, 20) connected thereto, said control circuit means connected to said magnetron acting to control the anode current of the magnetron concerned in response to said signal, said measuring means and said control circuit means being galvanically isolated from each other.



Compl. Specn. 20 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 40 E.

170964

Int. Cl. : C10G 35/04.

A CATALYTIC COMPOSITION AND A METHOD FOR PREPARING THE SAME.

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS, U.S.A.

Inventors : MARK DAVID MOSER & RANDY JOE LAWSON.

Application for Patent No. 539 DEL 87 filed on 25 JUN 1987.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110005.

Claims 9

A catalytic composition for the conversion of hydrocarbons comprising a uniformly dispersed platinum component, a uniformly dispersed tin component, a halogen component and a surface-impregnated metal component selected from the group consisting of rhodium, ruthenium, cobalt, nickel, iridium and mixtures thereof onto a refractory porous support having a uniform composition and a nominal diameter of at least 650 microns.

Compl. Specn. 42 Pages

Drgs. Sheets 3

Ind. Cl. : 14 C.

170965

Int. Cl. : H01M 8/02, 8/10.

METHOD OF CONSTRUCTING A MONOLITHIC FUEL CELL CORE OF A FUEL CELL FOR ELECTROCHEMICALLY COMBINING FUEL AND OXIDANT FOR GENERATION OF GALVANIC OUTPUT.

Applicant : THE GARRETT CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF CALIFORNIA, UNITED STATES OF AMERICA, OF P.O. BOX 92248, 9851-9951 SEPULVEDA BOULEVARD, LOS ANGELES, CALIFORNIA 90009, UNITED STATES OF AMERICA.

Inventor : DAVID MICHAEL KOTCHICK.

Application for Patent No. 542 DEL 87 filed on 26 JUN 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

Claims 10

1. A method of constructing a monolithic fuel cell core of a fuel cell for electrochemically combining fuel and oxidant for generation of galvanic output, said core being made entirely of trilayer electrolyte and interconnect walls, said method comprising the steps of :

mixing anode, cathode, electrolyte and interconnect powdered materials (each as herein defined) separately with a plasticizer and a binder to form four separate batches of an anode, cathode, electrolyte and interconnect materials;

rolling each said batch of said materials into a tape having a desired width and thickness;

rolling the tape of anode and the tape of cathode material on each side of said tape of electrolyte and interconnect materials, thereby forming a trilayer electrolyte tape and a trilayer interconnect tape;

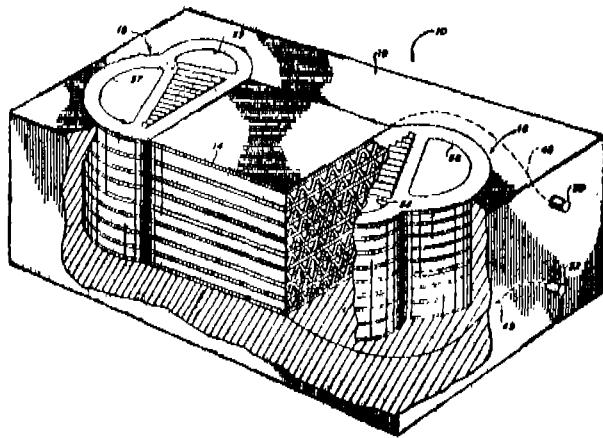
cutting said trilayer tapes to length;

molding at least one of said trilayer tapes into a desired shape;

alternately stacking trilayer electrolyte and interconnect tapes to a desired height to form said core having fuel and oxidant passageways in which the fuel passageways are bound only by the anode material and the oxidant passageways are bound only by the cathode material and in which said tape provide means for directing fuel and oxidant to respective said fuel and oxidant passageways;

extracting as herein described the binder from the core; and

sintering said core to form the monolithic fuel cell core which is self-supporting and devoid of any composite inert material.



Compl. Specn. 22 Pages

Drgs 5 Sheets

Ind. Cl. : 51 D

170966

Int. Cl. : B26B 21/00.

**A RAZOR PARTICULARLY FOR SHAVING A FACE HAVING PSEUDOFOLLICULITIS BARBAE.**

Applicant : WARNER-LAMBERT COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 201 TABOR ROAD, MORRIS PLAINS, NEW JERSEY 07950, UNITED STATES OF AMERICA.

Inventor : CARL ARTHUR HULTMAN.

Application for Patent No. 546 DEL 87 filed on 29 Jun 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**12 Claims**

A razor particularly for shaving a face having pseudofolliculitis barbae comprising :

a blade assembly with a single blade (14);

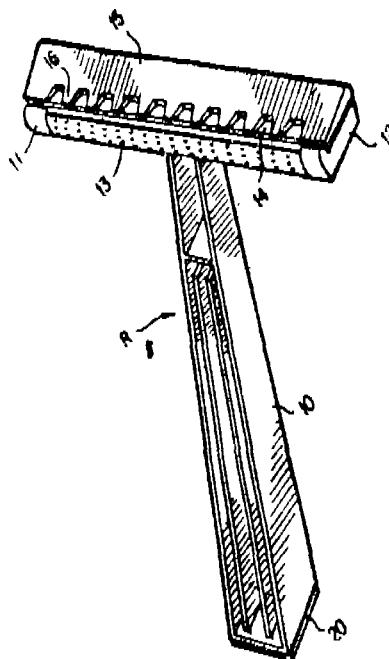
a handle (10);

a blade seat (12) for supporting said blade assembly thereon, said blade seat extending from the end of said handle and maintaining said blade assembly at a conventional shaving angle, the blade seat having a guard bar (11) extending therefrom.

a cap (15) positioned above said blade (14) and connected with at least said handle (10) or said blade seat (12) characterised in that :

said blade (14) is a single-edged blade, said guard bar (11) extending beyond said blade edge and spaced therefrom, said cap (15) extending towards said blade edge, said guard bar (11) being provided with discrete knurls (13) having apices to provide a discontinuous upper guard bar surface, said guard bar having at least ten closely spaced said knurls, (13) per

lineal transverse guard bar inch as measured across the guard bar length.



Compl. Specn. 11 Pages

Drgs. 2 Sheets

Ind. Cl. : 69 Q LIX (1)

170967

Int. Cl. : F 16 B 1/00, 15/00, 5/02.

**A DEVICE PREFERABLY FOR USE IN THERMAL TRIPPING APPARATUS.**

Applicant : LA TELEMECANIQUE ELECTRIQUE, A FRENCH COMPANY, OF 33 BIS, AVENUE DU MARECHAL JOFFRE, 92000 NANTERRE, FRANCE.

Inventors : BRUNO JACQUET, PIERRE BOUDET & JEAN PIERRE TELLIER.

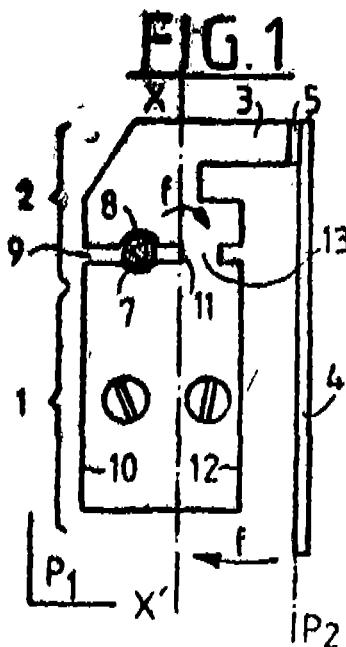
Application for Patent No. 550/DEL/87 filed on 30 Jun 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**4 Claims**

A device preferably for use in thermal tripping apparatus and comprising at least two parts (1, 3) thereof for adjustment relative to each other, and an intermediate portion (2) between said two parts (1, 3) enabling said adjustment by deformation, a tapped bore (7) provided in said intermediate portion (2) and a conical screw (8) to be screwed into said tapped bore (7) whereby said conical screw (8) causes deformation in said intermediate portion (2) and relative movement between the two parts (1, 3), said intermediate portion (2) having a first cut-out (9) which extends from a first edge (10) of the device to said tapped bore (7) characterised in that a second cut-out (11) in said intermediate portion (2) having one end thereof also opening into said tapped bore (7) opposite said first cut-out (9), and between the other end of said second cut-out (11) and a second edge (12) of the device there is provided a deformable region (13) offset from said bore (7) and serving as a hinge between

said two parts (1,3) enabling said adjustment:



Compl. Specn. 11 pages.

Ind. Cl. : 127 I.

Int. Cl. : B 60S 1/04.

#### A WIPER SYSTEM.

Applicant : CHAMPION SPARK PLUG EUROPE S. A., A BELGIAN COMPANY, OF AVENUE LEOPOLD III, 2 A, 7120 BINCHE, BELGIUM.

Inventors : CHRISTIAN BENETEAU.

Application for Patent No. 573/DEL/87 filed on 07 Jul 1987.

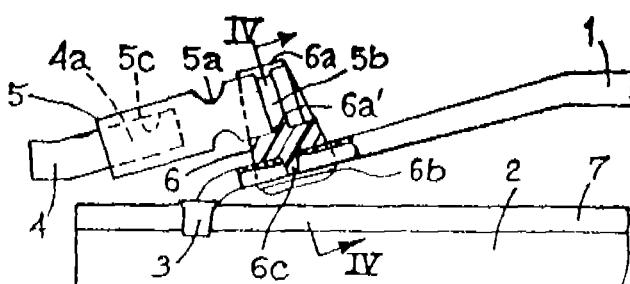
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 9 Claims

A wiper system comprising a wiper arm of which the front end is articulated to the superstructure (1) of the wiper blade in its medium portion and comprising a control arm (4) of which the front end (4a) is articulated to said superstructure (1) at its rear end, wherein the articulation between the front end (4a) of the control arm (4) and the rear end of the wiper blade superstructure (1) consists of a connecting device, said connecting device being characterised in that it consists of a first and a second element (5, 6);

said first element (5) being elongate and being made of an elastomer material of which one end is secured to the front end (4a) of the control arm (4) and of which the other end is secured to said second element (6);

said second element (6) being elongate and being made of a substantially rigid material of which one end is secured to the rear end of the wiper blade superstructure (1) and of which the other end is secured to said first element (5); and said two elements (5, 6) together forming an elbow-shaped joint.



Complete Specification 10 pages

Drawing Sheet 1.

Ind. Cl. : 68 E<sub>1</sub>

170969

Int. Cl. : H02M 5/00.

#### DEVICE FOR PROTECTING AN AC DISTRIBUTION NETWORK AGAINST SHORT CIRCUIT CURRENTS.

Applicant : TELEMECANIQUE ELECTRIQUE, A FRENCH COMPANY, OF 33 BIS, AVENUE DU MARÉCHAL JOFFRE, 92000 NANTERRE, FRANCE.

Inventor : ALBERT MORELLI.

Application for Patent No. 576/DEL/87 filed on 07 JUL 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

1. A device for protecting an AC distribution network against short circuit currents, the network comprising at least one upstream current limiting circuit breaker and at least one downstream current limiting circuit breaker, said current limiting circuit breakers being placed in series in an upstream branch and respectively in at least one dependent downstream branch of the network and each including a main power circuit with separable contacts, a magnetic tripping means and a current limiter capable of cutting off the corresponding branch when the current reaches respectively a tripping threshold (ID) and a limitation threshold (IR), characterised in that :

The downstream branch having the downstream current limiting circuit breaker (D1) has a current sensor (13) connected to a threshold processing circuit (14) which generates a neutralization signal (S) for opening the contacts for the upstream current limiting circuit breaker (D2) when the current in the downstream branch exceeds a given neutralization threshold (IA) less than the tripping threshold (ID) and/or than the limitation threshold (IR) of the upstream current limiting circuit breaker (D2).

A pair of head to tail thyristors (TH1, TH2) being disposed in parallel with the main power circuit of the upstream current limiting circuit breaker (D2), while a circuit (16) for controlling the gates of said thyristors is controlled by the neutralization signal (S) coming from the downstream current limiting circuit breaker (D1) for enabling one at least of the thyristors and inhibiting the main power circuit of the upstream current limiting circuit breaker (D2) for a time at most equal to a half wave.

Compl. Specn. 12 pages.

Drgs. 2 sheets.

Ind. Cl. : 35 C.

170970

Int. Cl. : CO 4 B 26/00.

#### A PROCESS FOR THE PRODUCTION OF IMPROVED CEMENT MORTAR AND CONCRETE.

Applicant : ALUFLOUR AKTIEBOLAG, A SWEDISH COMPANY, OF BOX 902 S-251 09 HELSINGBORG, SWEDEN.

Inventors : SCHON GUNNAR & ZECHNER SEPP.

Application for Patent No. 577 DEL/87 filed on 8 July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 6 Claims

A process for the production of improved cement mortar and concrete while optionally reducing the amount of cement used therewith, characterized by adding to the cement mortar or concrete a silica waste derived from the manufacture of aluminium fluoride from aluminium hydroxide and hexafluorosilicic acid, said silica waste being added in a quantity corresponding to up to 15% by weight of a prescribed cement addition to the cement mortar or concrete, preferably between 5% and 10% of said prescribed weight of cement.

Complete Specification 10 Pages

Drawing Sheets 6).

## PATENT SEALED ON 22-5-92

167709\*D 168234 168375 168617\*F 168710 168720\*D  
 168721\*D 168728\*D 168729\*D 168744 168745\*. 168803\*F  
 168812\*D 168852\* 168854\* 168863\* 168866 168877\*D  
 168880\*D 168897\* 168898 169478\*D 169687\*D 169688\*D.

Cal-7, Del-10, Mas-5, Bom-2.

\*Patent shall be deemed to be endorsed with the words "LICENCE OF RIGHT" under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

## D-DRUG Patents.

## AMENDMENT PROCEEDING UNDER SECTION 57

The amendments proposed by Mr. Satish Damodar Tank-sale, of Orient Chambers, 2163/B, Sadashiv Peth, Near Neelayam Theatre, Pune-411030, Maharashtra in respect of patent application No. 166807 (319/BOM/1987) as advertised in Part III, Section 2 of Gazette of India on 30-11-1991 and no opposition being filed within the stipulated period, the said amendment have been allowed.

The amendments proposed by National Council for Cement and Building Materials, of M. 10, South Extension Part-III, Ring Road, New Delhi-110 019 in respect of Patent Application No. 616/Del/85 as advertised in Part-III, Section 2 of Gazette of India on 16-9-89 and no Opposition being filed within the stipulated period, the said amendment have been allowed.

REGISTRATION OF ASSIGNMENTS, LICENSES ETC.  
(PATENTS)

Assignments, licences or other transactions affecting the interests of the original Patentees have been registered in the following case. The number of the case is followed by the name of the party claiming interests.

156855-Dhar Coal Products Pvt. Ltd.

Assignments, licences or other transactions affecting the interests of Original Patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests.

160819 — Babcock & Wilcox Tracy Power, INC.

157898 — —do—  
 161034 — —do—  
 161005 — —do—  
 164324 — —do—  
 163695 — —do—  
 162597 — —do—  
 164915 — —do—  
 165087 — —do—

## PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCE OF RIGHT"

## SECTION—87

157052 157344 157396 157449 157484 157487 157490 157494  
 157496 157497 157503 157506 157507 157508 157511 157529  
 157545 157551 157553 157570 157577 157579 157589 157598  
 157607 157613 157650 157659 157660 157667 157686 157688  
 157689 157760 157785 157793 157799 157837 157928 157929  
 157946

## RENEWAL FEES PAID

148736 150025 152524 153961 154887 155451 155876 157319  
 157353 158001 159297 160810 160994 161029 161030 161068  
 161338 161471 162149 164015 165315 165658 165699 166040  
 168173 168209 168827 168829

## CESSATION OF PATENTS

146011 146033 146063 146065 146122 146161 146186  
 146190 146197 146215 146225 146227 146255 146257 146260  
 146268 146294 146303 146325 146333 146371 146377 146386  
 146390 146393 146400 146405 146411 146432 146484 146487  
 146499 146504 146512 146513 146530 146533 146545 146554  
 146588 146613 146614 146628 146638 146642 146644 146652  
 146659 146663 146666 146679 146698 146704 146711 146712  
 146713 146714 146745

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 3. No. 163722. Eagle Flast Industries Limited of Eagle Estate, Talegaon 410 507, Dist Pune, Maharashtra, India. "Tray" October 30, 1991.

Class 3. No. 163721. Eagle Flast Industries Limited of Eagle Estate, Talegaon 410 507, Dist Pune, Maharashtra, India. "Mug". October 30, 1991.

Class 3. No. 163796. Motorola Inc., of 1303, East Algonquin Road, Schaumburg, Illinois-60196, U.S.A. "Portable Radiotelephone Charger". November 19, 1991.

Class 3. No. 16063. Media video Limited, of B-86/1, Okhla Industrial Area, Phase-II, New Delhi-110 020, India. "T. V. Game". February 4, 1992.

Class 10. No. 163774. Global Foot Wears India, 69, Najafgarh Road, New Delhi-110 005, India, Indian Partnership Firm. "Chappal". November 13, 1991.

Class 10. Nos. 164102, 164104 & 164105. Liberty Enterprises Liberty House, Karnal, Haryana, India, Indian Partnership Concern. "Sole of the shoe". February 17, 1992.

*Copyright extended for the 2nd period of five years*

Nos. 158215 and 152227 Class 1.

Nos. 158273 to 158276, 158696, 159071 and 152281 Class 3.

*Copyright extended for the 3rd period of five years*

Nos. 151907 and 158696 Class 3.

R. A. ACHARYA  
 Controller General of Patents, Designs  
 and Trade Marks